



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/735,718	12/12/2000	Stephen Ma	2705-93	5593

7590 06/29/2004

Marger Johnson & McCollom, P.C.
1030 SW Morrison Street
Portland, OR 97205

EXAMINER

HO, DUC CHI

ART UNIT	PAPER NUMBER
----------	--------------

2665

DATE MAILED: 06/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/735,718

Applicant(s)

MA ET AL.

Examiner

Duc C Ho

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 9-14 is/are allowed.
- 6) ☒ Claim(s) 1,2,5-8,15,16 and 19-22 is/are rejected.
- 7) ☒ Claim(s) 3,4,17 and 18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Art Unit: 2665

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because its length exceeds 150 words, and the abstract should be presented in a single paragraph.

Correction is required. See MPEP § 608.01(b).

Claim Objections

2. Claim 1-8, and 15-22 are objected to because of the following informalities:

Regarding claim 8, line 5, the word "and" seems to be a typo error. The same remark applies to claim 15, line 8.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –
(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Art Unit: 2665

4. Claims 1-2, 5-8, 15-16, 19-22 are rejected under 35 U.S.C. 102(e) as being anticipated by the admitted prior art in figure 2 of the instant application, hereinafter referred to as **admission**.

Regarding claim 1, the admission discloses a high-level block diagram of a Network Access Server, in which the Forwarding Engine 58-fig. 2 corresponds to a first processor, and the Network Interface 60-fig. 2 having Ingress and Egress processors corresponds to a second processor, wherein the FE 58 performs traditional routing tasks for the received frames, therefore it inherently includes routing table lookup, and routing table identifier, see page 9-line 11 to page 11-line 10.

using a first processor (the forwarding engine CPU 58-fig.2 of the instant application inherently performs a routing table lookup for a received frame or packet, see page 10, lines 11-15) in the network access server to perform a routing table lookup for a received packet;

determining, from the results of the routing lookup, a routing table identifier, a second processor (the Network Interface 60-fig. 2 of the instant application) responsible for processing the received packet, the second processor selected from a plurality of forwarding processors in the network access server (the NI 60 inherently includes two processors, the Egress one for transferring packets out to the IP network 20, while the Ingress one received packets from the IP network 20. The Egress one is inherently selected in this step);

passing the identifier and the received packet to the second processor (the FE 58 inherently pass the identifier and the received packet to the Egress processor of the NI 60); and

Art Unit: 2665

the second processor retrieving routing information for the received packet from a routing table, using the identifier to determine the location of the routing information in the routing table (the Egress processor of the NI 60 inherently performs this step).

Regarding claim 15, this claim has similar limitations as claim 1. Therefore, it is rejected under Admission for the same reasons set forth in the rejection of claim 1.

Allowable Subject Matter

5. Claims 9-14 are allowed.
6. Claim 3-4, and 17-18 are objected to as being independent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Malkin (US 6,243,380); Mauger (US 6,522,627) are cited to show intraserver tag-switched distributed packet processing architecture for network access servers, which is considered pertinent to the claimed invention.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (703) 305-1332. The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 703-308-6602. The fax phone

Art Unit: 2665

number for the organization where this application or proceeding is assigned is 703-872-9306.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

10. Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Sixth Floor (Receptionist).

Patent Examiner



Duc Ho

06-24-04